

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07266053
PUBLICATION DATE : 17-10-95

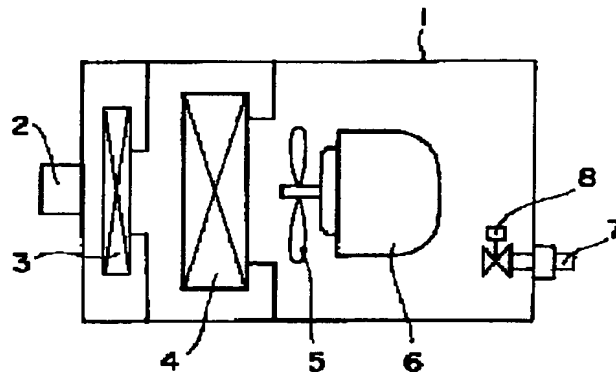
APPLICATION DATE : 30-03-94
APPLICATION NUMBER : 06061040

APPLICANT : KOBE STEEL LTD;

INVENTOR : KAWAMATA YOSHIKAZU;

INT.CL. : B23K 9/32 B01D 46/00 B08B 15/04
B23K 9/29

TITLE : METHOD AND DEVICE FOR
COLLECTING WELDING FUME



ABSTRACT : PURPOSE: To provide a method and a device for collecting welding fume, by which the scatter of fume attached to a filter can be avoided, and the contamination of the environment can be prevented.

CONSTITUTION: This device is equipped with a prefilter 3 composed of a refractory material such as ceramics, etc., and a main filter 4 having passing grain diameter of $\leq 0.5\mu\text{m}$. Gas containing welding fume is sucked from a sucking port 2 by a blower 6. At this time, a speed required when the gas containing welding fume passes through the main filter 4, must be $\geq 0.01\text{m/sec}$. Consequently, the fume is stuck to the filter 4 in the shape of solidified flakes, and since a bulk density becomes large, the fume becomes hard to scatter. Also, when cleaning the filter 4, purge gas is sprayed from the back of the filter 4 with a pressure of $\geq 2\text{kg/cm}^2$ to shake down the fume stuck to the filter 4.

COPYRIGHT: (C)1995,JPO